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- I. *An Account of the Rain which fell every Year at Upminster in Essex, the last Eighteen Years, with Remarks upon that of the Year 1714.* By W. Derham, F. R. S. *Also a Comparison of what has been observed of that kind at Paris, by M. De la Hire.*

LAST Year having been so remarkably Dry, that Ponds hereabouts are for the most part dry, and the Springs generally either very low or quite failing, I had the Curiosity to make an Extract (out of my Registers of the Weather, &c.) of the *Quantity of Rain* which fell at *Upminster* the last 18 Years. The Particulars of which, every Year, may be seen in the following Table. In one Column of which, the Weight of the Rain in Pounds *Troy* and Centesimals of Pounds, may be seen; in the other, the Depth of it in Inches and Centesimals of Inches, or what Height it would have been, had it not been imbibed by the Earth, or lessened by Exhalations, but been suffered to have stagnated on the Ground.

Among the *Dry Years*, 1704 was complained of for one; which I remember the News-Papers reported to have been so considerable at *Venice*, that they were forced to fetch their Water in Barks five Leagues off, as far as the *Brenta*; so that publick Prayers were put up for Rain. Yet we may observe that several other Years were drier than that with us at *Upminster*. But among them all, none comparable to the last Year 1714. In which the whole Quantity of Rain was no more than 55 $\frac{1}{95}$ Hundredths, or 11 Inches $\frac{19}{100}$ Hundredths; whereas the least Quantity of any of the preceding 18 Years, exceeded 15 Inches in Depth.

What Effects this Drought hath had in the Bodies of Animals, I leave others to judge. It is well known how contagious and fatal a Distemper hath raged among, not
only

only our own Black Cattle, but in many other Parts of *Europe*. And I observed the *Itch* was epidemical among the poorer sort, at the beginning of the Year; that the *Measles* were very common, some Parts of the Year; and that *Pleurisies* and *Malignant Feavers* infested a great many, especially in the Summer Months. But how far these Distempers might be owing to the Dry Season, I leave to the Judgment of our learned Physicians.

With greatest Duty and Respect I am the Society's

Most humble Servant, &c.

A TABLE of Rain which fell
at *Upminster*, from the Year
1697, to the Year 1714.

Year	Weight.		Depth.	
	l.	Cent.	inch.	Cent.
1697	77	60	15	52
1698	122	32	24	46
1699	75	54	15	11
1700	95	13	19	03
1701	93	45	18	69
1702	101	89	20	38
1703	119	94	23	99
1704	79	02	15	81
1705	84	62	16	93
1706	121	43	24	29
1707	81	55	16	31
1708	96	09	19	22
1709	132	82	26	56
1710	91	84	18	37
1711	118	02	23	60
1712	118	78	23	76
1713	115	80	23	16
1714	55	95	11	19

To compare with these, we have collected out of the *Memoirs* of the *Royal Academy of Sciences*, the Quantity of *Rain* and *Diffolved Snow* which has fallen at the *Observatory at Paris* for 23 Years together; according to the accurate Observation of *M. De la Hire*. And that the Comparison might be made more justly, we have reduced the *French Measure* to our own. But it is to be observed that the Diversity of *Stile* makes the Years not exactly the same, though, as to this Matter, the difference may seem very inconsiderable. We have forbore to make any Remarks upon this Comparison, leaving it to the Consideration of the curious Reader.

Anno.	French		English	
	Inch	lin	inch	Cent.
1689	18	$11\frac{1}{2}$	20	23
1690	23	$3\frac{3}{4}$	24	87
1691	14	$5\frac{1}{4}$	15	40
1692	22	$7\frac{1}{2}$	24	14
1693	22	8	24	18
1694	19	9	21	07
1695	19	$7\frac{3}{4}$	20	96
1696	19	$5\frac{1}{2}$	20	76
1697	20	3	21	60
1698	21	9	23	20
1699	18	$8\frac{1}{4}$	19	93
1700	20	$0\frac{1}{2}$	21	38
1701	21	$4\frac{1}{4}$	22	78
1702	16	4	17	42
1703	17	$4\frac{1}{4}$	18	51
1704	19	$10\frac{1}{2}$	21	20
1705	13	$10\frac{3}{4}$	14	82
1706	15	$3\frac{5}{8}$	16	32
1707	17	11	19	11
1708	18	$3\frac{1}{2}$	19	51
1709	21	$9\frac{1}{8}$	23	21
1710	15	$8\frac{3}{4}$	17	10
1711	25	2	26	84